

Author Index

- Abatzoglou, C., 377
Aboukais, A., 435
Adachi, Y., 283
Adler, P.M., 497
Avena, M.J., 147, 213
- Barany, S., 113
Belloni, L., 449
Benedetti, M.F., 147
B-Nagy, J., 419
Boček, P., 135
Borkovec, M., 147
Bóta, A., 311
Bruning, H., 293, 339
Buffle, J., 49
Buleva, M., 225
- Cabasso, I., 311
Chen, J., 339
Chen, M.-H., 65
Colberg, M.T., 483
Ćosović, B., 189
Csobán, K., 97
- de Keizer, A., 15, 389
De Las Nieves, F.J., 473
Dukhin, S.S., 3, 525
- Eshuis, A., 505
- Faers, M., 461
Fainerman, V.B., 525
Fernández-Barbero, A., 473
Filipcsei, G., 233
Filius, J.D., 245
Furusawa, K., 65
- Galet, L., 85
Garcia-Gonzales, R., 497
Gerasimenko, N.G., 113
Gingl, Z., 233
- Goloub, T., 15
Grant, C.S., 483
- Harwell, J.H., 255
Heijman, S.G.J., 303
Hesterberg, D., 483
Hopman, R., 303
Huang, W., 167
Huguenard, C., 49
Hutchison, K., 483
- Ikryannikova, L.N., 435
- Jameson, G.J., 269
Janssen, A.J.H., 389
Jeunieu, L., 419
Joabsson, F., 513
Joó, P., 97
- Kalantzopoulos, A., 377
Karube, J., 283
Kinniburgh, D.G., 147
Kiratzis, N., 461
Knox, R.C., 255
Koning, C.A.J., 505
Koopal, L.K., 15, 147, 201, 213, 293
Kostyuk, B.G., 435
Koval'chuk, V.I., 525
Krom, M.D., 127
Kunz, W., 85
- Larpen, C., 85
László, K., 311
LeBoeuf, E.J., 167
Lettinga, G., 389
Lheveder, C., 85
Liss, P.S., 127
Litmanovich, A.A., 399
Luckham, P.F., 461
Lunina, E.V., 435
Lunin, V.V., 435
- Lutterbach, N., 449
- Mackay, R.A., 409
Markaryan, G.L., 435
Marmur, A., 77
Maroto, J.A., 473
Maurino, V., 329
Meeussen, J.C.L., 245
Menghetti, R., 49
Miller, R., 525
Minero, C., 321, 329
Monnereau, C., 497
Mota, A.M., 181
Moumen, N., 409
Mulleneers, H.A.E., 293
Muravieva, G.P., 435
- Nagy, L.G., 311
- Ollis, D.F., 339
- Pan, G., 127
Papisov, I.M., 399
Parmon, V.N., 351, 367
Pelizzetti, E., 321, 329
Petkanchin, I., 225
Pezron, I., 85
Pileni, M.P., 409
Pinheiro, J.P., 181
Plavšić, M., 189
Puertas, A.M., 473
- Ralston, J., 3
Reus, V., 449
Roubani-Kalantzopoulou, F., 377
Rulkens, W.H., 293, 339
Rulyov, N.N., 43
- Sabatini, D.A., 255
Sáez, A.E., 483
Scarnecchia, C., 49
Sidorova, M.P., 15

Šimek, Z., 135
Solomentseva, I.M., 113
Swinkels, G.C.C., 293
Szekeres, M., 233
Sznejer, G., 77

Thovert, J.-F., 497
Thuresson, K., 513
Tombácz, E., 233
Turakulova, A.O., 435

van Elderen, G.R.A., 505
van Leeuwen, H.P., 181
van Riemsdijk, W.H., 147, 245
Vermeer, A.W.P., 213
Versmold, H., 449
Vespalec, R., 135
Vignes-Adler, M., 497
Vincenti, M., 329

Waite, T.D., 27

Weber, W.J., Jr., 167
Yang, Y.-H., 201

Zakharenko, V.S., 367
Zemb, T., 449
Zhang, J., 49
Zhilinskaya, E., 435
Zhu, J., 85

Subject Index

- Abiogenic, 351
Acidity, 245
Activated carbon, 303, 311
Adsorbed surfactant orientation, 15
Adsorption, 189, 225, 233, 245, 303
Adsorption–desorption studies, 377
Adsorption energy, 65
Aerosols, 351
Aggregate, 283
Aggregation, 113
Allophane, 283
Alumina, 97, 189
Alumina powder, 65
Aluminium-oxide, 233
AOT, 419
Atrazin, 303
Attachment efficiency, 3
- Bacteria, 389
Basic aluminium chloride, 113
Bentazon, 303
Binary adsorption isotherms, 377
Branching, 213
Brewster angle microscopy, 85
Bubble lifetime, 525
Bubble–particle interaction, 3
Bubble–surface mobility, 3
- Cadmium, 77
Calcium hydroxycarbonate, 367
Catalysis, 351
Cellulose, 311
 $\text{CeO}_2\text{--ZrO}_2$, 435
Charge neutralization, 49
Chemical heterogeneity, 181
Chromium(III), 97
Coagulation, 27, 505
Collectors, 293
Collision efficiency, 3
Colloidal aggregation, 473
Colloidal crystal, 449
- Colloidal dispersions, 461
Colloidal forces, 255
Colloidal stability, 49
Colloids, 351
Conductivity, 497
Contact angles, 293
Contaminants, 43
Contaminant sequestration, 167
CO oxidation, 435
Copper ion complexation, 85
Crystalline structure, 435
Cyclam derivative, 85
- Degradation of organics, 321
Degree of hydration, 213
Dehalogenation, 321
Depletion, 461
Desorption, 167
Dilution, 513
Dissolved air flotation, 293
DLA, 283
Donnan, 147
Drinking water, 303
Dynamic light scattering (DLS), 233
- Earth's atmosphere conditions, 367
EHEC, 513
Electric light scattering, 225
Electrokinetic effects, 135
Electrokinetic potential, 113
Environmental catalysis, 377
Estuarine, 127
- Flexibility, 213
Flocculation, 43, 461
Floc flotation, 269
Floc structure, 27
Flotation, 43, 269
Foam structure, 497
Fractal, 283
Freons, 367
Frothers, 293
Fulvic acid, 147

- Geosorbent organic matter, 167
Goethite, 245
Ground water contamination, 255
- Heavy metal, 77
Hematite, 49
Heterocoagulation, 473
Heterogeneity, 147
Homogeneous, 505
Humic acid, 147, 201, 233
Humic acid glass transitions, 167
Humic acid immobilisation, 201
Humic matter, 181
Humic substance, 225
Hydrated fulvic acid structure, 213
Hydrated humic acid structure, 213
Hydration, 113
Hydrocarbon-inorganic oxides kinetics, 377
Hydrodynamic processes, 525
Hydrodynamic thickness, 49
Hydrolysis, 97, 113
Hydrophobic modification, 513
Hydrophobic organic contaminants, 167
- Immobilisation to silica, 201
Induced-air flotation, 269
Inertial forces, 3
Interfacial Langmuir trough, 85
Internal structure, 213
Intrinsic viscosity, 213
Ion binding, 147
Isotropic, 497
- Kaolinite, 233
- Lability, 181
Light scattering, 283
Liquid chromatography, 135
Liquid/liquid interface, 85
Liquid membrane, 77
- Magnesium oxide, 367
Malonate, 245
Mark Houwink coefficient, 213
Maximum bubble pressure method, 525
Mechanism, 505
Melting, 449
Membrane, 77
Meniscus oscillations, 525
Metal ions, 127, 189
Microemulsions, 409
Microstructure, 311
- Model, 303
Montmorillonite, 233
Morphology, 505
Multivalent salt, 449
MUSIC model, 245
- Nanolatex, 409
Nanoparticles, 399
Natural gas, 389
Natural waters, 127
4-Nitrophenol, 201
- Off-lattice simulation, 473
 O_2^- formation and reactivity, 435
Organic acid, 245
Organic matter, 189
Osmotic pressure, 65, 449
Oxidation processes, 321
Oxide suspension, 225
- PAH, 293
Particle aggregation, 233
PCS, 49
Pesticides, 303
Phase behaviour, 513
Phenanthrene, 167
Phenol adsorption, 311
Phospholipid hydration, 483
Photoadsorption, 367
Photocatalysis, 321, 329, 351
Photocatalytic decomposition, 339
Photosorption, 351
Polmerizable surfactant, 409
Polyacrylamide, 49
Polyacrylonitrile, 311
Polyethyleneterephthalate, 311
Polymer, 513
Polymer adsorption, 65
Polymer colloids, 473
Polymer desorption, 65
Polymerization, 409
Polymer-particle complex, 399
Polymer-particle interaction, 399
Precipitation, 505
Prediction, 303
Pseudoisocyanine, 419
Pseudo-matrix process, 399
Purification, 43
- Quartz crystal microbalance, 483
- Real foams, 497

- Recognition, 399
Red-ox behaviour, 435
Reduction processes, 321
Remediation, 255
Reversed-flow gas chromatography, 377
Rheology, 461
- Sea, 127
Sedimentation, 389
Silica, 97, 293
Silica flotation, 15
Silica stability, 15
Silica wetting, 15
Silver halide, 419
Size and density of aggregates, 113
Soil remediation, 293
Solid-gas interface, 367
Solid-liquid interface, 65
Solid solutions, 435
Sols of metals, 399
Soot, 293
Sorption, 97, 147, 167
Sorption-desorption, 127
Sorption to immobilised humic acids, 201
Stability efficiency, 3
Steric stabilization, 49
Streaming current, 135
Structure, 283
Sulfonyl urea herbicides, 329
Sulphide, 389
Sulphur, 389
Surface charge, 233
Surface complexation model, 97
Surface composition, 351
Surface modification, 233
Surfactant adsorption, 15
- TiO₂ particles, 329
TiO₂ suspensions, 339
Total internal reflection fluorescence, 483
TPR, 435
Trace metals, 181
Transport, 245
- Uranium, 339
USAXS, 449
- Viscosity, 283
Voltammetry, 181, 189
- Waste water, 389
Wastewater treatment, 27
Water colloid stability, 225
Water treatment, 27, 113, 303
Weak organic acid, 201
Weak organic acid sorption, 201
- Y₂O₃-CeO₂-ZrO₂, 435
- Zeta potential, 135

